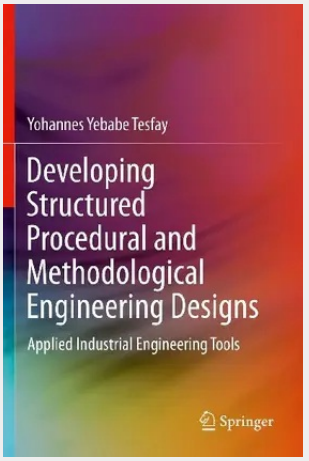
Tesfay

Developing Structured Procedural and Methodological Engineering Designs

Applied Industrial Engineering Tools



This book is designed to assist industrial engineers and production managers in developing procedural and methodological engineering tools to meet industrial standards and mitigate engineering and production challenges. It offers practitioners expert guidance on how to implement adequate statistical process control (SPC), which takes account of the capability to ensure a stable process and then regulate if variations take place due to variables other than a random variation. Powerful engineering models of new product introduction (NPI), continuous improvement (CI), and the eight disciplines (8D) model of problem solving techniques are explained. The final three chapters introduce new methodological models in operations research (OR) and their applications in engineering, including the hyper-hybrid coordination for process effectiveness and production efficiency, and the Kraljic-Tesfay portfolio matrix of industrial buying.

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